	Application No.	Applicant(s)
Notice of Allowability	10/664,950	YEH ET AL.
	Examiner	Art Unit
	Ngoc-Yen M. Nguyen	1754
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to <u>January 18, 2007</u> .		
2. The allowed claim(s) is/are 1.2.4-9 and 20.		
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some* c) None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)		•
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	<ol> <li>6. ☑ Interview Summary Paper No./Mail Dat</li> </ol>	(PTO-413), e
Information Disclosure Statements (PTO/SB/08),     Paper No./Mail Date	7. 🛛 Examiner's Amendn	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's Stateme	ent of Reasons for Allowance
·	9.  Other	

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## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Mark Lamarre on April 2, 2007.

The application has been amended as follows:

Claim 1: line 2 of step d), after "ammonia" (first occurrence), delete "compounds/"; line 2 of step e), delete "ammonia-containing compounds" and insert -- aqua ammonia--; step f), after "ammonia", delete "compounds/" and after "salts" insert -- from steps d) and e)--.

Claim 5 (amended): The process as recited in claim 1 wherein the ammoniacontaining compounds are generated by the thermal decomposition of ammonium
bicarbonate (NH<sub>4</sub>HCO<sub>3</sub>) to carbon dioxide (CO<sub>2</sub>), ammonia solution (NH<sub>4</sub>OH),
ammonium carbonate ((NH<sub>4</sub>)<sub>2</sub>CO<sub>3</sub>), and combinations thereof the ammonia salt
obtained in step e) is ammonium bicarbonate and said ammonium bicarbonate is
decomposed to generate a gas mixture comprising CO<sub>2</sub> and NH<sub>3</sub> or CO<sub>2</sub> and
(NH<sub>4</sub>)<sub>2</sub>CO<sub>3</sub>).

Claim 20 (amended): The process of claim 1 further comprising the regenerating the ammonia containing compounds step of decomposing the ammonia salt obtained in step e).

Cancel non elected claims 10-17.

The following is an examiner's statement of reasons for allowance: the prior art does not teach or suggest a process comprising a first step of converting acid anhydrides precursors of SO<sub>2</sub>, NO<sub>x</sub> and acid moieties to ammonia compounds/salts by first oxidizing the acid anhydrides precursors to oxidized anhydrides, and a second step of converting CO<sub>2</sub> to ammonia salt by using aqua ammonia.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoc-Yen M. Nguyen whose telephone number is (571) 272-1356. The examiner is currently on a Part time schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on (571) 272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ngoc-Yen M. Nguyen
Primary Examiner
Art Unit 1754

nmn April 2, 2007